RW-2201B

Vehicle Weighing Scale





Table of Contents

1. Introduction	5
2. Feature & Main function	6
3. Technical Specification	6
4. Front Panel	8
5. Test mode	11
6. Setting mode	13
7. How to measure vehicle	17
8. Method of using(RW-15B)	18
9. How to save data	20
10. Change roll of print	22
11. Error Message	23

1. Introduction

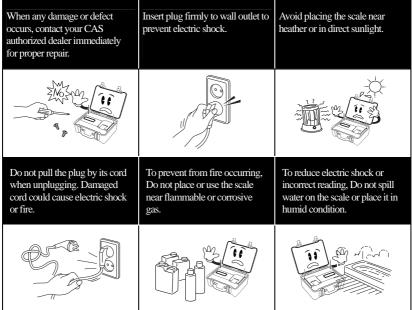
Thank you for purchasing the CAS RW-2201B Series weighing indicator. We have designed this equipment with many advanced features, high quality construction, and user-friendly menu driven programming. We are confident that you will find the CAS RW-2201B Series will meet all of your most demanding needs. CAS indicator is shaped firmly and delicately designed to coincide with the special requirements of several industrial fields and includes many functions and various external interfaces. Also, it contains help display functions to be used easily.

Before using RW-2201B, It is recommended to read this manual carefully and to apply the function application fully.

Precautions

Observe the following safety precautions:







For consistent and accurate reading, maintain periodical check by your CAS authorized dealer.	Avoid sudden shock to the scale. Internal mechanism could by damaged.	Attach the rubber pad to the bottom of the indicator. Elimination is possible.
Place the scale on firm and temperature consistent environment.	Keep the scale away from the elect This may interfere with accurate re	

Our Dealers: CAS feels that each of its valued customers should get the best service available. Whether it's the initial installation of our product, maintenance/repair work, or simply answering questions about our products, CAS Corporation and all of its Authorized Dealers are highly trained to assist you with any need regarding CAS products.

2. Feature & Mainfunction

Feature	
☐ Simple & Light & Portable.	
☐ Easy Control	
☐ Internal battery.	
☐ Internal battery charger	
☐ With Backlight	
☐ Internal Printer	

3. Technical Specification

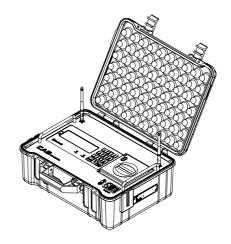
RW-2201B

Digital & Display		
Display	LCD (6 digit + Sign)	
Character size	24 mm (height)	
Display under zero	"-" minus display	
Display status	ZERO, STABLE, UNIT(kg)	
Power	AC 220 V 50/60Hz	
Operation temperature	-10 ~40	
Wireless communication	Blue tooth	
Composition	RW-2201B , RW-15B(2sets)	
Product weight	About 10.6kg	
Using time	About 48 hours	
Charging time	About 24 hours	

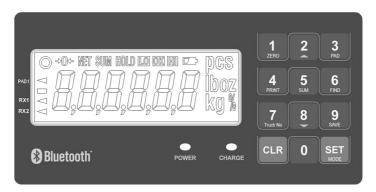
RW-15B

Digital & Display		
A/D Speed 10 times/second		
External resolution	1/750(Max capa : 15t, 1d :	20kg)
Using time	about 10hours(Continue co	omm.)
Using key	Power ON/OFF	
Battery	4.8V(1.2V * 4EA), 1.3A (N	II-MH)
Inner Power / Power consumption	Inner Power : 3.3V / Power consumption : abou	t 0.5 W
Weight	About 27kg(except Ramp,	Ramp Weight : 10kg)
Communication		
Wireless communication BLUETOOTH method (CLASS 1)		SS 1)
Frequency	2.402 ~ 2.483GHz	
CHANNEL 78 CHANNELS(HOPPING method)		method)
Communication speed	9600bps	
Communication distance	Opensite : about 50M	At barrier place : about 30M
Communication distance	Notice. Communication distar be changed by cir	





4. Front pannel



■ Display Lamp

Display	Brief	Description
0	Stable lamp	A Display this lamp at stable
->0≪-	Zero lamp	Display this lamp at zero
SUM	Sum lamp	Display this lamp at sum mode
%	Percent lamp	Display capacity of battery (%)
V	RX 1	Display the status of PAD1 comm.
∇	RX 2	Display the status of PAD2 comm.
∇	PAD1	Display the weight of PAD1
	Low battery lamp	Low battery lamp of RW-2201B
LO	Low battery lamp	Low battery lamp of RW-15B
Red lamp on printer	Power lamp of printer	Display the power-on of printer
Green lamp on printer	Self-Test lamp of printer	Display the ok or not ok of printer

■ Key Board

ZERO	
Short	Used to remove small vibration

PAD	
Short	Check the weight of each PAD
Long	Power off the all PAD (Display "OFF")

PRINT	
Short	Used to print and sum weight
Long	Used to lock print (To print, input the pre-setting password in F02)

Notice. Check first the setting mode before use this function. (F03->1).

SUM	
Short	Print all PAD weight of one vehicle

Notice. It can not print weight of all vehicle one day.

	FIND
Short	Find saved data

Notice. Yon can print data of saved data

TRUCK No.	
Short	To input vehicle number(4 digit)

SAVE					
Short	To save the weight of PAD (Max 10 vehicle)				
Long	To move next mode.				

Notice. If you press this key very often, it will be saved data every time at other memory.

SET					
Short	To go next mode or to save data				
Long	To enter SET mode				

CLR					
Short	To erase data				
Long	To enter TEST mode				

5. TEST MODE

How to enter TEST mode

Turn on Power while press 'CLR' key to enter test mode..
You will see massage (conect). Press 'SET' key and then move to test menu.

TEST menu(TEST1 ~ TEST6)

TEST 1: Key test

TEST 2: Battery test of RW-2201B TEST 3: Load-cell test of PAD1 TEST 4: Load-cell test of PAD2

TEST 5 : Clock test TEST 6 : Print test

TEST 1

Key test												
Key	Function			D	ispla	ıy			Descriptio	n		
SET	Move to TEST2			1	tESt 1		This is status of TEST 1					
Other key	Operate test				1	Press key, display value of key co			f key code.			
key	1	2	3	4	5	6	7	8	9	0	CLR	SET
code	1	2	3	4	5	6	7	8	9	0	А	b

TEST 2

Battery TEST of RW-2201B						
Key	Function Display Description					
SET	Move to TEST3	tESt 2	This is status of TEST 2			
	6.00 Battery value of RW-2201B					

TEST 3

Load Cell TEST of PAD1						
Key	Function	Display	Description			
SET	Move to TEST4	tESt 3	This is status of TEST 3			
		24750	AD value of PAD1			

TEST 4

Load Cell TEST of PAD2							
Key	Function	Display	Description				
SET	Move to TEST5	tESt 4	This is status of TEST 4				
		23564	AD value of PAD2				

TEST 5

Clock test							
Key	Function	Display	Description				
SET	Move to time	tESt 5	This is status of TEST 5				
	setting or TEST6	06.11.09 12.02.32	dAtE : Display date. tlME : Display time				

TEST 6

Printer test							
Key	Function	Display	Description				
SET	Move to weighing	tESt 6	This is status of TEST 6				
	mode	600d	Operate printer test				

Notice. Output of print is below.

TEST OK

6. SET MODE

How to enter SET mode

Turn on Power while press 'SET' key or press long 'SET' key in weighing mode.

SET Mode menu

Menu	Description			
F01	Setting backlight			
F02	Change the password			
F03	etting lock of print key			
F04	Setting communication error message display			
F05	Setting auto-save data at printing			
F06	Setting number of using PAD			
F11	Setting auto-print			
F12	Setting line-feed			
F13	Setting time			

F01 (Setting backlight)							
Key Function Display Value Description							
Other Key	0 ~ 3 key		0	Always off			
		F01	1	At pressing key			
SET	Save and exit the	FUI	2	At changing weight			
SET	set mode		3	Always on			

	F02 (Change password)							
Key	Function	Display	Value	Description				
	Select 0 or 1	F02	0	To do not change pass word				
SET	Save and exit the set mode		1	To change password				
	F02 = 1(To change password)							
Key		PASS Display						
SET	Enter the pas sword	0	langet 4 number of passyuard					
SEI		Good	Input 4 number of password					
SET		PASS 1						
SEI		0	inputn	ew password				
SET		PASS 2						
SEI		0	Relly II	nput new password				

Notice. Initial password is '1234' in factory

If PASS 1 is different from PASS 2, RW-2201B display
error message 'Err 31', come back input mode of PASS 1.

F03 (Setting lock of print key)					
Key Function Display Value Description					
Key	Select 0 ~ 1	E02	1	Use of lock	
SET	Exit set mode	F03	0	Don't use.	

You must check F02 before this mode.

F04 (Display comm. Error message)					
Key	Function	Display	Description		
Key	Select 0 ~ 1	F04	1	Don't use.	
SET	Exit set mode	Γ04	0	Display comm Error .	

F05 (Auto save setting)					
Key	Key Function Display		Value	Description	
Key	Select 0 ~ 1	FOE	1	Auto save at print	
SET	Exit the set mode	F05	0	Manual save	

F06 (Setting number of pad)						
Key Function		Display	Value	Description		
Key	Select 0 ~ 2		0	Use 2 PAD		
SET	Exit the set	F06	1	Use 1 PAD(Number 1)		
S E T	mode		2	Use 1 PAD(Number 2)		

Notice. PAD number is written on spec-plate.

F11 (Auto print)					
Key	Key Function Display			Description	
Key	Select 0 ~ 1	F44	0	Don't use this function	
SET	Move the next mode	F11	1	Only status of stable	

Notice. If you select 1 of F11, this function is operated when the weight is over 1% max capacity.

F40 (1 to 1 to 1)							
F12 (Line feed)							
Key	Function	Display	Value		Description		
Key	Select 0,1,5		0	0 line fe	ed.		
SET	Move the next mode	F12	ſ	ſ			
	next mode	5		5 line fe	ed.		
	Form	at			Total Format		
2006.11.24 1	14:32:54			TO1	AL PRINT		
Truck No.:1	234			Truck N	lo.: 1234		
A	XLE 1			TOTAL	AXLE.: 2		
WEIGHT1	: 12056 kg			TOTAL: 4234kg			
WEIGHT2:	10150 kg						
AXLE1 TOTAL : 22206 kg							
`	XLE 2						
WEIGHT1	: 2056 kg						
WEIGHT2:	4150 kg						
AXLE2 TOTA	AL: 6206 kg						
F13 (Setting time)							
Key	Function	Display	Va	lue	Description		
Key	Select 0or1	E40	06.0	9.18	Input date		
SET	End of set mode	F13		0.54	Input time		

Notice. If date-input is done, it will be change mode of input-time.

7. How to measure vehicle

See the below picture. As you shown, you can weigh the vehicle four time

- 1) If vehicle is on the PAD, press print key because save the data and print data.
- 2) If weighing is done, you can ready next weighing. Also if vehicle is on the PAD, press print key. The reason is same.
- 3) Repeat 2 times.
- 4) Gross weight of vehicle: If weighing is all done, press sum key because RW-2201B print gross data (with 4 axel weight data)

	Sort	1 step	2 step	3 step	4 step
2	1) without dummy (2 PLATE)				
A X E L	2) use dummy (2 PLATE + 2 DUMMY PLATE)	0 0			
3 A X E L	1) use dummy (2PLATE + 12 DUMMY)				
4 A X E L	1)use dummy (2PLATE + 12 DUMMY)				

Notice: Even measuring by Dummy plate, error of the actual weight can happen. (The error range is +/-3% from the Maximum capacity)

8. Method of using(RW-15B)

Using

POWER ON/OFF

1. POWER ON: Press power S/W for 2 sec. **2.** POWER OFF: Press power S/W

POWER LAMP

LAMP OFF: This is status of power off.
 LAMP ON: This is status of power on.

3. LAMP blinking: RW-15B is needed for charging.

notice. As you shown side picture, raised antenna help communication n far more than lay.



9. How to save data

Method 1.

- 1. If wheel of vehicle on pad, press save key.
 - "1 SAVE" is display. This means wheel weight save done.
- 2. Repeat the procedure 4times (1 vehicle)
- 3. If you done, press save key long. Then It will show END message
 - This procedure is for save data. The result is saved weight of one vehicle.
 - If you see the "FULL" message, memory is full.
 - It has memory of 10 vehicle.

Method 2

If you set 1 of F05, auto save function is used. Auto save function is saved at print. It is done at Total print.

Notice . It is saved 4 axel weight data per vehicle.

If exceed 4 axel weight data, will overwrite old data.

Search the saved data

- 1. Press FIND key."Then it will be show 0-XXXX.
 - First number means order of saving and second number means number of vehicle.
- 2. Press 2 key or 8 key. It will be show save vehicle number.
- 3. If you find what you want vehicle number, press print key.
- 4. If you delete data, press CLR. All saved data is erased.

10. Change printer roll.



Insert roll Print Line Feed Key

As you show above picture, press line feed key after insert roll. Then the paper is passing through cartridge. Press line feed key again. Then the paper is stop. This is done.



See above the picture. It is picture of removed cartridge. If letter is not clear, you must change cartridge. Method of change is very simple. Hold on the cartridge and pull up.

11. Error message & Trouble shooting

No	Reason	Trouble shooting
t1-out t2-out	Fail to communication t1-out : PAD1, t2-out : PAD 2	Too far or many barrier. Get close or remove barrier.
Err2-1 Err2-2	A/D value is wrong Err2-1 : PAD 1, Err2-2 : PAD 2	Check the pad power. Then operate TEST3, TEST 4. Check A/D value
Err 11 Err 12	Over the initial zero range. Err 11 : PAD 1 , Err12 : PAD 2	Clear on the pad. Initial zero range is within 20% of Max weight.
Err 30	Entered password exceed 4 numbers.	Input only 4 number.
Err 31	Entered password is different from old password.	Enter new password again.
Err 50	Internal memory is erased	Call your CAS dealer
BT-Err	Fail to communication	Retry communication.
OUER1	Over the max weight of PAD1	This may damage load-cell. You must reduce the weight under the max capacity.
OUER2	Over the max weight of PAD2	This may damage load-cell. You must reduce the weight under the max capacity.
batt	Low battery of RW-2201B	You must recharge the RW-2201B.

MEMO

MEMO





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